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User's Manual

Car Alarm Python 460 Responder (3305P) Two Way

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Responder 460

Owner's Guide

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Limited lifetime consumer warranty

Directed Electronics ("Directed") promises to the original purchaser to repair or replace with a comparable reconditioned model any Directed unit (hereafter the "unit"), excluding without limitation the siren, the remote transmitters, the associated sensors and accessories, which proves to be defective in workmanship or material under reasonable use during the lifetime of the vehicle provided the following conditions are met: the unit was professionally installed and serviced by an authorized Directed dealer; the unit will be professionally reinstalled in the vehicle in which it was originally installed by an authorized Directed dealer; and the unit is returned to Directed, shipping prepaid with a legible copy of the bill of sale or other dated proof of purchase bearing the following information: consumer's name, telephone number and address; the authorized dealers name, telephone number and address; complete product description, including accessories; the year, make and model of the vehicle; vehicle license number and vehicle identification number. All components other than the unit, including without limitation the siren, the remote transmitters and the associated sensors and accessories, carry a one-year warranty from the date of purchase of the same. This warranty is non-transferable and is automatically void if: the original purchaser has not completed the warranty card and mailed it within ten (10) days of the date of purchase to the address listed on the card; the unit's date code or serial number is defaced, missing or altered; the unit has been modified or used in a manner contrary to its intended purpose; the unit has been damaged by accident, unreasonable use, neglect, improper service, installation or other causes not arising out of defects in materials or construction. The warranty does not cover damage to the unit caused by installation or removal of the unit. Directed, in its sole discretion, will determine what constitutes excessive damage and may refuse the return of any unit with excessive damage. TO THE MAXIMUM EXTENT ALLOWED BY LAW, ALL WARRANTIES, INCLUDING BUT NOT LIMITED TO EXPRESS WARRANTY, IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF NON-INFRINGEMENT OF INTELLECTUAL PROPERTY, ARE EXPRESSLY EXCLUDED; AND DIRECTED NEITHER ASSUMES NOR AUTHORIZES ANY PERSON OR ENTITY TO ASSUME FOR IT ANY DUTY, OBLIGATION OR LIABILITY IN CONNECTION WITH ITS PRODUCTS. DIRECTED DISCLAIMS AND HAS ABSOLUTELY NO LIABILITY FOR ANY AND ALL ACTS OF THIRD PARTIES INCLUDING ITS AUTHORIZED DEALERS OR INSTALLERS. DIRECTED SECURITY SYSTEMS, INCLUDING THIS UNIT, ARE DETERRENTS AGAINST POSSIBLE THEFT. DIRECTED IS NOT OFFERING A GUARANTEE OR INSURANCE AGAINST VANDALISM, DAMAGE OR THEFT OF THE AUTOMOBILE, ITS PARTS OR CONTENTS; AND HEREBY EXPRESSLY DISCLAIMS ANY LIABILITY WHATSOEVER, INCLUDING WITHOUT LIMITATION, LIABILITY FOR THEFT, DAMAGE AND/OR VANDALISM. THIS WARRANTY DOES NOT COVER LABOR COSTS FOR MAINTENANCE, REMOVAL OR REINSTALLATION OF THE UNIT OR ANY

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Make sure you have all of the following information from your dealer:

A clear copy of the sales receipt, showing the following:

- Date of purchase
- Your full name and address
- Authorized dealer's company name and address
- Type of alarm installed
- Year, make, model and color of the automobile
- Automobile license number
- Vehicle identification number
- All security options installed on automobile
- Installation receipts

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Table of contents

Limited lifetime consumer warranty i
2-way LCD remote control 1
LCD screen 2
Standard remote configuration 3
What is included 4
Important information 4
System maintenance 5
FCC/ID notice 6
Replacement remote controls 7
2-way LCD remote control functions 7
Standard configurations (1-way and 2-way remote controls) 7
Standard LCD icon configurations (2-way only) 9
Remote operation 12
System signal paging features 12
Out of range notification 13
Programming LCD remote 14
To enter programming mode 14
Beeps/Vibration On/Off 14
Illumination On/Off 15
Page notification 15
To exit programming mode 15
Using your system 16
Active arming 16
Passive arming 17
Multi-level security arming 18
Disarming 19
Disarming without a transmitter 21
Dome light control (optional) 22
Silent mode 22
Panic mode 23
Valet mode 24
Nuisance prevention® circuitry 25
Auxiliary outputs (options) 26
Diagnostics 27
Arming diagnostics 27
Disarming diagnostics 28
Table of zones 29
Interpreting zone diagnostics 30

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Owner recognition 31
Rapid resume logic 32
Power saver mode 32
Programming 33
Installation options 37
Vehicle recovery system (VRS®) 37
Arming the VRS 38
Triggered sequence, VRS 39
Disarming the VRS 40
Security & convenience expansions 41
Glossary of terms 43
Quick reference guide 45

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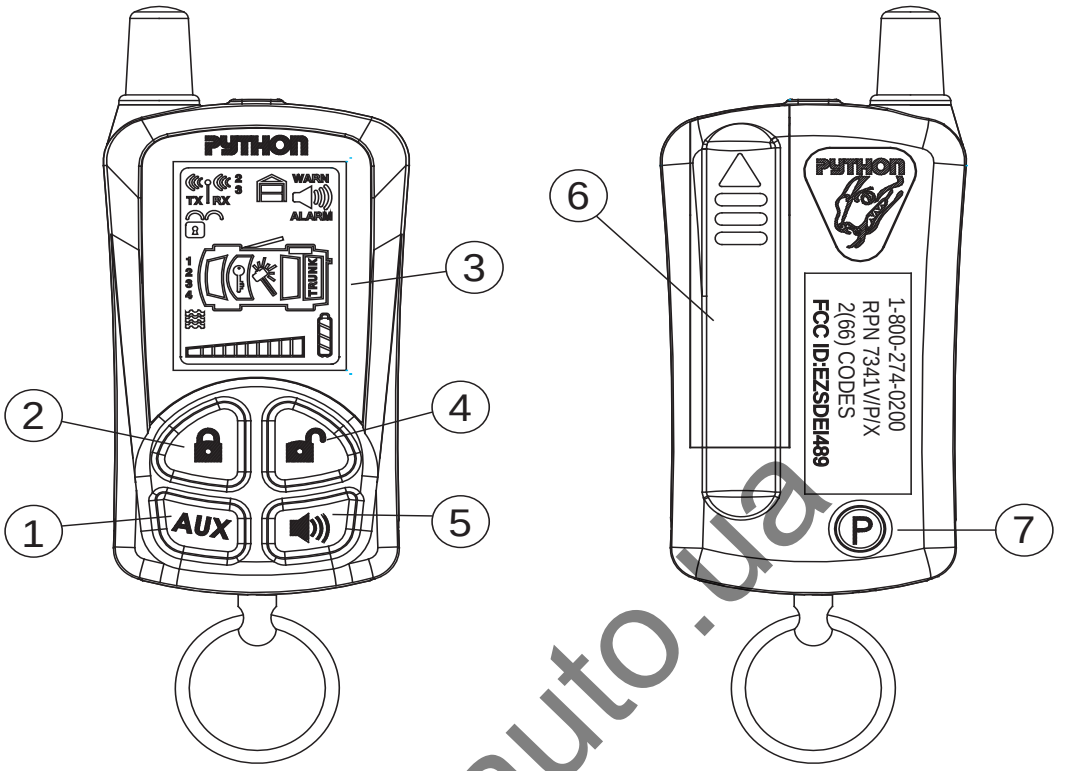
2-way LCD remote control



1.	Auxiliary Channel Button
2.	Arm Button
3.	LCD Screen (see *LCD Screen*)
4.	Disarm Button
5.	Panic Button
6.	Battery Compartment
7.	Program Button

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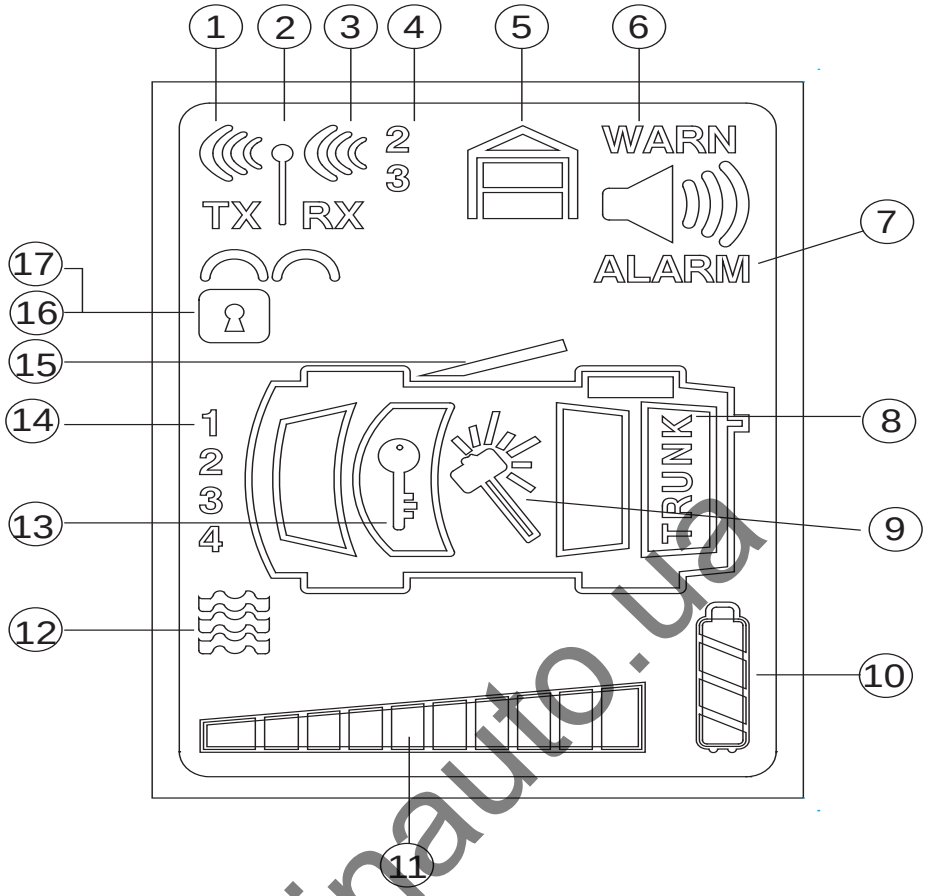
LCD screen



1. Transmit	10. Battery level indicator
2. Out of range	11. Remote sending
3. Receive	12. Vibrate mode
4. Aux Output 2 or 3	13. Ignition
5. Garage door (519H2 option)	14. Vehicle number
6. Warn Away®	15. Door
7. Alarm	16. Arm
8. Trunk or Hood	17. Disarm
9. Sensor	

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Standard remote configuration

controls the **Lock–Arm/Panic On/Panic Off** function.

controls the **Unlock–Disarm/Panic Off** function.

controls **Silent Mode™** and an **Auxiliary Output (2)**.

or controls the **Panic On/Off** function (hold for 2-seconds).

and pressed together control an **Auxiliary Output (3)**.

P (located on back of the remote) selects the vehicle to control and also provides user selection of LCD remote response .

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What is included

- Control module
- 1 four-button 2-way LCD transmitter
- 1 four-button transmitter

> **note:** On both remotes the panic button is the same color.

- Wire harnesses
- The 514N six-tone programmable siren
- In-vehicle status LED indicator light
- A push-button Valet switch
- Your warranty registration
- Failsafe® Starter Kill ready circuitry (may require additional labor)
- 548T receiver/antenna

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Important information

Congratulations on the purchase of your state-of-the-art vehicle security system. This system has been designed to provide years of trouble-free operation. Due to the complexity of this system, it must be installed by an authorized dealer only. Installation of this product by anyone other than an authorized dealer voids the warranty. All dealers are provided with preprinted dealer certificates to verify that they are authorized.

This owner's guide should help you to get the most out of your system. Please take the time to read it prior to using the system.

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➜ System maintenance

This system needs no specific maintenance beyond remote control battery replacement. The 2-way remote is powered by a 1.5V AAA battery. The 1-way remote is powered by a pair of 3V, CR2016 batteries.

Battery Level Indicator (2-way remote)

The Battery Level indicator has four level indicators that serve as a visual indication of battery charge. When the battery reaches a low charge level that requires replacement, the remote control will generate a single notification chirp, and the Battery Level indicator will flash continuously.

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Battery Replacement (2-way remote)

Gently pull the end of the battery door away from the top of the remote control then slide the door up to expose the battery and remove the expired battery. Place the new battery into the remote control observing the correct polarity. When power is returned the remote control will display all icons in the LCD and generate all beeper tones once. Press any button on the remote to terminate the beeper tone review.

➜ your warranty

Your warranty registration must be returned and the bar code serial number must not be removed. If the warranty registration is not returned, you do not have a warranty. It is also necessary to

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keep your proof of purchase, which reflects that the product was installed by an authorized dealer. Make sure that you receive the warranty registration from your dealer.

➜ FCC/ID notice

This device complies with Part 15 of FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesirable operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

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Tested to Comply with FCC Standards

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Replacement remote controls

You can purchase replacement remote controls from your Authorized Dealer or on-line at the following web site:

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Once you receive your new remote control, please refer to instructions included on the remote packaging.

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2-way LCD remote control functions

The LCD remote control buttons are used to send commands to the system. The descriptions below reflect the standard configuration for this system. The buttons can be custom configured for the user's specific needs by the installer. Also, the user can configure the LCD remote for certain responses (see *Programming LCD Remote* section).

➜ Standard configurations (1-way and 2-way remote controls)

Button

The arming function is controlled by pressing this button for one second.

Button

The disarming function is controlled by pressing this button for one second.

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AUX Button

Silent Mode™ and an optional auxiliary function are controlled by pressing this button. (Silent Mode™ works by pressing this button for less than one second before arming or disarming. An optional auxiliary function, such as trunk release, can be controlled by pressing this button for 1.5 seconds.)

The auxiliary output controls _____.

or Button

The panic feature is controlled by pressing this button for approximately two seconds.

and Buttons

An optional auxiliary convenience or expansion function that you have added to your system can be activated by pressing these buttons simultaneously.

The auxiliary output controls_____.

Program Button (on rear of 2-way LCD remote only)

Use this button to select the vehicle to control from the remote. Also use this button to configure response characteristics from the LCD remote (see *Programming 2-Way Remote*).

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➜ Standard LCD icon configurations (2-way only)

Icon

The transmit icon will be displayed while the remote control is transmitting a command to the vehicle.

Icon

The signal icon will be displayed if a command is transmitted to the vehicle but the command page is not received.

Icon

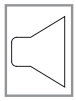
The receive icon will be displayed while the remote control is receiving a page from the vehicle.

Icon

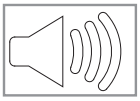
The auxiliary and sensor icons will display which auxiliary is operating, or which security sensor (zone 2,4 or 7) is in Warn Away® or alarm state.

Icon

The garage door icon—for use with optional 519H2.

and  **Icons**

The above Warn Away® displays when a security feature has been tripped, but not to full alarm.



and

Icons

The above icons will display when a security feature has been tripped to a full alarm condition.

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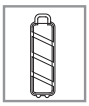
Icon

The trunk icon will display for full alarm by flashing for a few seconds and then display continuously until the page is cleared.

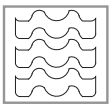
Icon

The shock sensor icon will display for both Warn Away® and full alarm by flashing for a few seconds and then display continuously until the page is cleared.



Icon

The battery icon always displays the current charge capacity remaining in the remote's battery.



Icon

The vibrate icon will always display if the remote is programmed for vibrator notification (see programming LCD remote section of the guide).

Icon

The ignition icon will display for full alarm by flashing for a few seconds and then display continuously until page is cleared.

1
2
3
4 **Icon**

The vehicle icon always displays the current vehicle (maximum of 4 vehicles) being controlled by the remote. If a Warn Away® or alarm trigger should occur at one of the other vehicles, that vehicle's number will be displayed and the LCD will display that vehicle's status. To change back to the original vehicle selected,

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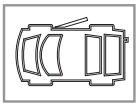
press and release the program button until the vehicle number is shown.

For example, If the remote was originally on vehicle number 1 and a trigger page was received for vehicle number 2, the remote will show the trigger alarm and show number 2 on the display. After clearing the page, press and release the program button until number 1 is displayed. Now you can operate the alarm system on vehicle number 1.

 **Icon**

The door icon will display for full alarm by flashing for a few seconds and then display continuously until the page is cleared.

Icon

The arm icon will flash when the system is locking the doors and display continuously until the system is armed.

Icon

The disarm icon will flash when the system is unlocking the doors and display continuously until the system is disarmed.

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Transmitter functions

This system uses a computer-based learn routine to learn the transmitter buttons. This makes it possible to assign any transmitter button to any system function. The transmitter initially comes programmed with Standard Configuration, but may also be customized by an authorized dealer. The buttons described in this manual correspond to a Standard Configuration transmitter.

Remote operation

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The system operates at 434 MHz and incorporates Directed's proprietary out-board technology transceiver. The high frequency combined with Binary Data communication achieves superior range with two-way communication.

➜ System signal paging features

A page is the signal the control module sends to the remote control as confirmation of receipt of a command or alarm system status.

When the remote control receives a page it will generate a page notification to the user (notifications are audible beeps and-or vibration) and the LCD Icons will display the current system status.

Command Page

When a command (arm/disarm, or auxiliary channel) from the remote control is sent and received, the system will send a command page back to confirm receipt.

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Alarm Page

If the alarm system is triggered while armed, an Alarm Page will be sent to the remote control. When the remote receives an Alarm Page, the LCD icons will display the alarm system status information and the remote control will generate beeps and-or vibration.

An Alarm Page alert is a series of 5 groups of 4 rapid beeps (shock, trunk, door, ignition, or hood trigger) and the LCD icon that caused the alarm will display. The remote will beep and or vibrate every 60 seconds to alert the user that the alarm system was triggered and will continue until the alarm page is cleared.

Page Recognition (Acknowledgement)

To clear a page alert/notification, quickly press any button on the remote control. This can be performed at any time during or after the page notification has occurred.

The remote control will not send a command to the system at this time; it will only clear future repeats of the page notification. The next time a button is pressed on the remote control it will send a command to the system.

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➜ Out of range notification

If a command is issued from the remote, but the remote is set to the incorrect vehicle or is beyond the range of the vehicle to receive the command, the remote responds with 3 set of 2 quick beeps and the icon will flash 3-times.

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Programming LCD remote

➜ To enter programming mode

Press and hold the P button until one long beep is heard. Programming mode to customize the remote's response is now entered.

> **note:** If no buttons are pressed within 5-seconds, programming mode will exit with 2-beeps.

➜ Beeps/Vibration On/Off

Press to select beeps/vibration On/Off. Beeps alone, vibration alone, beeps and vibration, or no beeps and vibration can be selected. Refer to the table below for these settings.

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Beep/Vibrate settings	Programming response	Icon display*
Beeps only (default)	1-beep	Siren icon On
Vibrate only	1-vibrate	Vibrate icon On
Beep & Vibrate	1-beep and 1-vibrate	Vibrate and siren icon On
No Beep and No Vibrate	1 long beep	Vibrate and siren icons Off

***Note:** This is icon display during programming.

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➜ Illumination On/Off

Press to select LCD backlight illumination On/Off. The LCD backlight will illuminate when a remote button is pressed, or an alarm status page is received.

LCD Backlight settings	Programming response
ON	1-beep, backlight ON
OFF	2-beeps, backlight OFF

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➜ Page notification

The remote control can be programmed to notify the user of a page (audibly beeping if the vehicle's status changes, e.g. door unlocked, engine started, vehicle violation, etc.). On the LCD remote press to select page On/Off. One beep is page On, Two beeps is page Off. When programmed off the remote will not give any notification that a page was received from the vehicle.

Note: If programmed Off, **no alarms** will be notified to the remote. Command information (armed/disarmed) will be notified to the remote.

➜ To exit programming mode

The LCD remote control will exit programming mode after 5-seconds of inactivity and will emit 2 long beep.

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Using your system

The buttons described in this manual correspond to the standard configuration. Remember, this is not the only way your transmitter may be set up. It can be custom configured to meet your needs. See your installer for additional details.

➜ Active arming

You can arm the system by pressing of your remote for one second. When the system arms, from the vehicle you will hear a short siren sound, or chirp, and see the parking lights flash once. If the power door locks are controlled by the system, the doors will also lock. While the system is armed, the in-vehicle's status LED will flash approximately once per second, indicating that the system is actively protecting your vehicle. If you hear a second chirp after arming and note that the in-vehicle's status LED is flashing in groups, see the Diagnostics Section of this guide. This extra chirp is called Bypass Notification.

The LCD remote responds to active arming with one beep and the icon will flash 5-times to indicate successful arming of the system.

If the LCD remote beeps twice after arming, the system has detected an active sensor that should be checked. For example, a door open icon will be displayed flashing 5-times on the LCD screen.

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Passive arming

The system can be programmed to arm itself automatically (called passive arming). If the system is programmed for passive arming, it will automatically arm 30 seconds after the ignition is turned off and the system detects that you have left the vehicle by opening and closing a door. Whenever the system is in its 30-second passive arming countdown, the in-vehicle status LED will flash twice as fast as it does when the system is armed. At the 20-second point of the countdown, the siren will chirp to indicate that the system is about to arm. At the 30-second point, the parking lights will flash to indicate that the system is armed.

The LCD remote responds to passive arming with one beep and the icon will flash 3times to indicate successful arming of the system.

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> **note:** If any protected entry point (such as a door or a switch-protected trunk or hood) is open, the system will not passively arm (unless forced passive arming is programmed on. See Programming Options section.) Additionally, if a door, hood or trunk is triggered during the arming countdown, the 30-second countdown starts over.

When armed your vehicle is protected as follows:

- Light impacts trigger the Warn Away® signal. When triggered, the siren chirps and the parking lights flash for a few seconds.
- Heavy impacts trip a Triggered Sequence. The sequence consists of the siren sounding continuously and the parking lights flashing for a pre-programmed period, which can range in duration from 1 to 180 seconds.
- If a door is opened, the system will immediately start

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chirping the siren and flashing the parking lights. Three seconds later, the siren output changes to a continuous blast. This progressive response gives you time to disarm the system with your LCD remote if you inadvertently open the door while the system is armed, while still providing instant response (even if the door is immediately closed).

- Turning on the ignition key will trip the same progressive response as opening a door.
- The optional starter kill prevents the vehicle's starter from cranking.
- Any full trigger of the alarm system will immediately send an alarm page to your remote informing you that your vehicle should be checked.

Multi-level security arming

Multi-Level Security Arming allows you to select which of the security system's inputs or sensors will be active and which will be bypassed at the time that the system is armed. (See the *Table of Zones* section of this guide.) Pressing again within five seconds of arming the security system will activate the Multi-Level Security Arming feature. Each time is pressed again, a different security level is selected. The different security levels can be selected as follows:

- Press once: The siren chirps once. The system is armed.
- Press a second time within five seconds: The siren chirps twice followed by a long chirp. Zone 2 is now bypassed.

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- Press a third time witihin 5 seconds, the siren chirps 3 times then followed by a long chirp. Zone 4 is now bypassed.
- Press a fourth time within five seconds: The siren cirps four times follwed by a long chirp. Zone 2 and 4 are now bypassed.
- Press a fifth time within five seconds: The siren chirps five times followed by a long chirp. All input zones, except the ignition are now bypassed.
- Hold down the to begin the Multi-Level-Security Arming cycle over again.

> **note:** Multi-Level Security Arming only applies to a single arming cycle. Once the system is disarmed and then re-armed, all the zones will be active again.

After each press of the to reach the next level of security, the remote will emit normal arm notification (1 beep and 5 flashes of the icon). For easiest operation in reaching each level of security, press immediately **after** each notification.

➜ Disarming

To disarm the system, press . You will hear two chirps, and the parking lights will flash twice. If the power locks are connected to the system, the doors will unlock. If the siren chirps either four or five times when disarming, refer to the *Diagnostics* section of this guide. This is called Tamper Alert.

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The remote will indicate disarm notification with 2 beeps and 5 flashes of the icon. If disarming after the system has been triggered, the remote control will send a diagnostic notification as a reminder. These diagnostic notifications are:

1. If a sensor triggered the system, the remote will emit 4 quick beeps and the LCD screen will indicate which sensor (5-flashes) tripped the alarm.
2. If a switch (Zone 1, 3, or 5) triggered the system, the remote will emit 4 quick beeps and the LCD screen will indicate which switch (5 flashes) tripped the alarm.
3. If the system was triggered so many times that NPC is active the remote will emit the above notifications with 5 beeps instead of 4.

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Disarming without a transmitter

This feature allows you to disarm the security system without the remote transmitter should it be lost, damaged, or disabled. In order to disarm the system without a remote transmitter, you must have the vehicle's ignition key and know where the Valet button is located. Be sure to check with the installer for the location and the number of presses of the Valet button required to disarm the system.

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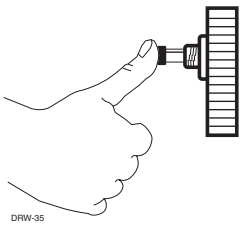
DRW-35

To disarm the security system, turn the ignition to the ON position. Press the Valet button the preset number of times (one to five times) within 15 seconds. After five seconds the system will disarm. If the system does not disarm, you may have waited too long; turn the ignition off and on and try again.

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Location of Valet Button_____

Number of Pulses_____

> **important!** The unit can be programmed to respond to one to five pulses of the Valet button for the disarm function. Be sure to check with the installer for the desired programming.

The LCD remote will indicate disarm notification with 4 quick beeps and 5 flashes of the and triggered zone icons.

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➜ Dome light control (optional)

security only

The dome light activates for 30 seconds after the system is disarmed.

Ignition controlled

The dome light activates for 30 seconds after the ignition is turned Off.

door controlled

The dome light activates for 30 seconds after the system sees a door has closed. (If door was held open for longer than 3 minutes the dome light will not illuminate.)

full

The dome light activates for 30 seconds after seeing door closure, ignition, or security disarm. (This is the *factory* setting.)

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➜ Silent mode

To temporarily turn off the arm or disarm chirps, use Silent Mode™. Press AUX for less than one second before arming or disarming, and the confirmation chirp(s) will be eliminated for that one operation only. If you want the arm/disarm chirps turned off permanently, your dealer can do this for you.

> **note:** The Warn Away® response to lighter impacts is bypassed if the system is armed using Silent Mode. This ensures that no chirps will be emitted by the siren in an area you want chirp-free. The system is still fully capable of triggering. Only the Warn Away® response is bypassed.

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The LCD remote responds with the normal arm/disarm notifications in silent mode. (If the remote has beeps programmed On, the remote will beep.)

Panic mode

note: On both remotes the panic button is the same color.

LCD remote

If you are threatened in or near your vehicle, you can attract attention by triggering the system with your LCD remote. Just press or button for approximately two seconds, and you will enter Panic Mode. The siren will sound and the parking lights will flash for the programmed siren duration. To stop Panic Mode at any time, press or button on the LCD remote again.

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The LCD remote responds with one beep and display of the icon upon entering Panic Mode.

4-button remote

If you are threatened in or near your vehicle, you can attract attention by triggering the system with your transmitter. Just press or for approximately two seconds, and you will enter Panic Mode. The siren will sound and the parking lights will flash for the programmed siren duration. To stop Panic Mode at any time, press , or on the remote transmitter again.

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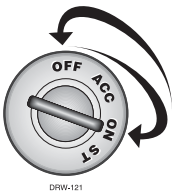
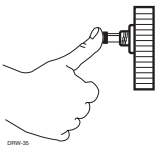
Valet mode

You can prevent your security system from automatically arming and triggering by using Valet Mode. This is very useful when washing the vehicle or having it serviced. In Valet Mode, the security system will not arm, even with the remote transmitter, but all convenience functions (door locks, trunk release, etc.) will continue to work normally.

To enter or exit Valet Mode:



1. Turn the ignition on.
2. Turn the ignition off.
3. Press and release the Valet button within 10 seconds.



The status LED will light solidly if you are entering Valet Mode, and it will go out if you are exiting Valet Mode.

The remote will respond with 5 flashes of the icon and 2 beeps on entering or exiting Valet® Mode.

To enter or exit Valet Mode using the transmitter:

1. Open any vehicle door.

Quickly press the following buttons in the sequence indicated.

2. Press .
3. Press .
4. Press again.

The in-vehicle status LED will light solidly if you are entering Valet® Mode, and it will go out if you are exiting Valet® Mode.

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➜ Nuisance prevention® circuitry

Your system has Directed's Nuisance Prevention® Circuitry (NPC®). It prevents annoying repetitive trigger sequences due to faulty door pin switches or environmental conditions such as thunder, jackhammers, airport noise, etc.

Example

If the alarm triggers three times within a 60-minute period and each time the same sensor or switch triggers the alarm, NPC® will interpret those triggers as false alarms. After the third trigger, NPC® ignores, or bypasses, that sensor or switch (along with any other sensors or switches sharing the same zone) for 60 minutes.

If the bypassed sensor tries to trigger the system while it is being bypassed, the 60-minute bypass period will start over. This ensures that a sensor that continually triggers will remain bypassed.

Doors are covered by NPC® differently; if the alarm is triggered by an open door for three full cycles, the doors will be bypassed until the trigger ceases.

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> **note:** Arming and disarming the system does not reset this function. In order to reset a bypassed zone, the same zone must not trigger for 60 minutes, or ignition is turned on. If testing your system, it is important to remember that the NPC® programming can cause zones to be bypassed and appear to stop working. If five chirps are heard when disarming, NPC® has been engaged. If you wish to clear the NPC® memory, turn the ignition key on.

NPC® is On/Off programmable. See your dealer and the *Programming* section of this guide for more information.

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Auxiliary outputs (options)

This system also supplies outputs that can control convenience options such as remote control trunk release and window automation. Consult your dealer for available options for your system.

Channel 2 Trunk release: When connected, pressing

for 1.5 seconds will remotely release the vehicle trunk lid.

Channel 3 auxiliary output: When connected, pressing and will immediately activate this output to control an additional convenience option.

The remote will respond with a page notification consisting of one long beep and for 4 seconds displays the channel number on the LCD screen. This occurs at the remote after the system has received the command to activate any of the Auxiliary outputs.

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Diagnostics

The microprocessor at the heart of your security system is constantly monitoring all of the switches and sensors that are connected to it. It detects any faulty switches and sensors and prevents them from disabling the entire system. The microprocessor will also record and report any triggers that occurred during your absence. Refer to the *System Status Chirps* and *Table of Zones* charts for diagnostic information.

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➜ Arming diagnostics

If the system is armed while an input is active (door open, sensor triggering, etc.) the unit will chirp once when arming and then one more time a few seconds later. This is called Bypass Notification.

> **note:** Bypass Notification will not occur when using Silent Mode™ or if chirps have been programmed OFF.

The security system will ignore the input that was active when the system was armed, until the input goes away. Three seconds later the system will monitor that input normally. For example, if your vehicle has interior light exit delay, and you arm the system before the interior light goes out, you may hear Bypass Notification chirps. Once the light shuts off, however, the doors are monitored normally.

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➜ Disarming diagnostics

Extra disarm chirps are the Tamper Alert. If four chirps are heard when disarming, the system was triggered in your absence. If five chirps are heard, a zone was triggered so many times that Nuisance Prevention® Circuitry has bypassed that zone (see NPC section of this guide). The in-vehicle status LED will indicate which zone was involved. (See *Table of Zones* section of this guide.) The system will retain this information in its memory, and continue to chirp four or five times each time it is disarmed, until the next time the ignition key is turned on.

➜ System status chirps

The siren will chirp when arming/disarming the system. The pattern of chirps will audibly report the system's status as described below.

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Action	Number of Chirps	Description
Arm	1	System armed
Arm	1 (3-second delay), 1	System armed with Bypass Notification
Disarm	2	System disarmed
Disarm	4	System disarmed with Tamper Alert
Disarm	5	System disarmed NPC® active

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➜ Table of zones

The zone number is the number of LED flashes used by the system to identify that input. The standard input assignments are listed below, along with spaces to write in any optional sensors or switches you have had installed.

Zone - Number of LED Flashes	Description	Dealer-Installed Options
1	Instant trigger - often used for trunk pinswitches	
2	Shock sensor input - a light impact activates warn away and a heavier impact activates full alarm.	
3	Door switch trigger	
4	Optional sensor inputs for warn away and full alarm notification.	
5	Ignition trigger	

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➜ Interpreting zone diagnostics

Warn Away responses are not reported by arming or disarming diagnostics. If you receive a Bypass notification when arming or a Tamper Alert notification when disarming, look at the in-vehicle status LED. Active or triggered zones will be indicated by a pattern of blinks by this LED.

Example

If Zone 3 was active or triggered, the in-vehicle LED will blink three times with a two-second pause. Then it will blink three times again, and repeat until the ignition is turned on.

> **note:** Your system stores the last six triggered zones in memory. If your system has been triggered but the LED has been reset by turning on the ignition, your dealer can still recall the last six zones that were triggered. Contact your dealer for details.

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Code hopping

The receiver and transmitters each use mathematical formulas called algorithms to change their codes each time the transmitter is used. This technology has been developed to increase the security of the unit. The control unit knows what the next codes should be. This helps to keep the transmitter "in sync" with the control unit even if you use the remote control out of range of the vehicle. However, if the transmitter has been pressed many times out of range of the vehicle, or if the battery has been removed, it may get out of sync with the control unit and fail to operate the system. To re-sync the remote control press of

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the transmitter several times within range of the vehicle. The alarm will automatically re-sync and respond to the transmitters normally.

Owner recognition

Owner Recognition is a feature available exclusively from Directed. Using the Directed Bitwriter®, a hand-held programming tool, your dealer can program many of the system settings. The programmer makes it possible to program different settings for each transmitter that is used with the system. Then, whenever a specific transmitter is used, the system will recall the settings assigned to that transmitter. Owner Recognition lets up to four users of the system have different settings that meet their specific needs. It is almost like having four separate alarms in your vehicle, one for each user.

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note: Owner Recognition cannot be programmed without a Directed Bitwriter® and the necessary software. Check with your dealer for more information.

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Rapid resume logic

This Directed system will store its current state to non-volatile memory. If power is lost and then reconnected, the system will recall the stored state from memory. This means if the unit is in Valet Mode and the battery is disconnected for any reason, such as servicing the car, when the battery is reconnected the unit will still be in Valet Mode. This applies to all states of the system including arm, disarm, VRS®, and Valet Mode.

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Power saver mode

Your system will automatically enter Power Saver Mode while armed or in Valet® Mode, after a period of time in which no operation has been performed. This lowers the current draw to the vehicle's battery. Power Saver Mode takes over under the following conditions:

- Power Saver when the system is armed: After the system has been armed for 24 hours, the in-vehicle LED will flash at half its normal rate, decreasing the system's current draw.
- Power Saver in Valet® Mode: When the system enters Valet® Mode the in-vehicle LED illuminates steadily. If the vehicle is not used (ignition is not turned on) for a period of one hour while the system is in Valet® Mode, the LED will shut off. If the system remains in Valet® Mode, the LED will come back on the next time the ignition is turned on and then back off.

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Programming

Programming options control what your system does during normal operation, and require few or no additional parts. However, some may require additional installation labor.

The following is a list of the program settings, with the factory settings in **Bold:**

- **Active arming** (only with the remote) or passive arming (automatic arming 30-seconds after the last door has been closed).
- Arming/disarming confirmation siren chirps **on** or off.
- The ignition controlled door lock feature **on** or off: With this feature on, the doors will lock three seconds after the ignition is turned on, and the doors are closed, and unlock when the ignition is turned off. The system will not lock the doors when the ignition is turned on with any door open. The bitwriter is not needed to program theses separately, it should be in the programming grid to do these 2 independently. Ignition lock and unlock are independent features and can be programmed separately.
- Passive door locking (with passive arming) or **active door locking** (only when arming with the remote). Passive locking allows the vehicle's doors to lock when the security system passively arms (after the 30 second countdown). This feature only works if passive arming has been programmed.

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note: When programmed for passive arming and active lock, if the system is disarmed without a door being opened, the system will relock the doors when it passively rearms.

- Panic mode **enabled**/disabled with the ignition on: Some states have laws against siren capability in a moving vehicle.
- Forced passive arming **on** or off: If your system is programmed for passive arming and the forced passive arming feature has been programmed on, the system will passively arm after one hour, even if a protected entry has been left open. This feature is useful if a door has been left ajar when leaving the vehicle. Forced passive arming ensures that the security system will be armed in every situation.

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note: When the system passively arms after one hour, the entry point that has been left open, and anything connected to the same zone, is bypassed and cannot trigger the system. However, the remaining inputs to the system are fully operational.

- Automatic Engine Disable (AED) on or **off**: The purpose of this feature is to protect the vehicle from being stolen at all times, regardless of whether or not the alarm is armed. If AED is programmed on, the starter of the vehicle will be disabled 30 seconds after the ignition is turned off. Once the key is turned off, the in-vehicle LED will flash slowly (one-half its normal armed rate) to indicate the AED arming cycle. Thirty seconds later, the starter of the vehicle will be disabled. To start the car, it will be necessary to disarm the system with the remote. It is also possible to disarm the AED

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feature by turning the ignition key to the RUN position and pressing the Valet® button the programmed number of times. AED is disabled when the system is in Valet® Mode.

> **note:** This feature will only function if the Failsafe® Starter Kill relay has been installed.

- Full trigger response **30** or 60 seconds: This determines how long the full triggered sequence lasts. Some states have laws regulating how long a security system can sound before it is considered a nuisance. If your installer is programming the security system with the Directed Bitwriter, the full triggered response can be programmed for any duration ranging from 1 to 180 seconds.
- Nuisance Prevention® Circuitry **on** or off: Please refer to the NPC® section of this manual for a complete explanation of how NPC® operates. If NPC® is programmed off, the security system will respond to inputs from any sensor indefinitely.

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> **note:** Because many states have laws regulating security systems, programming NPC® off may cause your system to violate state laws.

- **Comfort Closure Off:** Windows will close upon locking the vehicle.
- **Forced Passive Arming Off**: If passive arming is on and a door is left open the system will be armed after 30-seconds.
- **Panic with Ignition Off**: Prevents the Panic button on the remotes from activating panic with ignition On (not allowed in some states).

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- Progressive door trigger **on** or off: When the system is armed and a door is opened, the system responds with ten chirps prior to beginning the full triggered sequence. If an instant trigger is desired, the progressive door trigger can be programmed off.
- Valet® pulse count: The number of presses of the Valet® button required to disarm the security system, AED, or the VRS® system can be programmed from one to five presses. The default setting is **one** press.
- Siren tones and chirp volume: The output of the Revenger® Soft Chirp® siren consists of six different tones in sequence. Any of these tones can be eliminated by your dealer, resulting in a unique, easily identifiable siren sound. The siren chirps can be either full volume or **six decibels quieter** than the full alarm blast.

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Installation options

The system has many options that may require extra parts and labor. Some of the possibilities are listed here.

- Progressive unlocking: In most cars with electric power door locks, the system can be configured so that when the system is disarmed, only the driver's door unlocks. A second press of the button unlocks the other doors.
- Vehicle Recovery System (VRS®): VRS is an anti-carjacking device designed to help in the safe recovery of your vehicle in case of a carjacking. Please refer to the Vehicle Recovery System section of this guide for a complete explanation of how the Vehicle Recovery System operates.

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Vehicle recovery system (VRS®)

The optional VRS feature is designed to ensure that any unauthorized user of your vehicle (even if using your keys and remote control) will not be able to permanently separate you from your vehicle.

The VRS cannot prevent a carjacking attempt; however, it does ensure that if your vehicle is taken by an unauthorized user, it will be disabled (after several progressive warnings) as safely as possible. Should a carjacking occur, the VRS allows you to concern yourself with your personal safety without worrying about your property.

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Directed has engineered this vehicle security system, the Failsafe® Starter Kill, and the VRS feature to provide the best combination of personal safety and property protection available. When properly installed, the system can never inadvertently stop your vehicle in traffic or on railroad tracks while the vehicle is in operation. It is unlike other systems that shut down your engine while it is running. This system is designed to perform starter interrupt, or starter kill. The Failsafe® Starter Kill cannot shut down an already-running engine – it can only prevent an engine from starting in the first place.

> **important!** Any installation that allows this product to shut down a vehicle's engine when it is running is contrary to the product's design and intended usage, and Directed hereby expressly disclaims any liability resulting therefrom.

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➜ Arming the VRS

To arm the VRS, turn the ignition to the ON position and press the arm button on the remote transmitter for one second. The parking lights will flash and the siren will chirp once. This can be done before driving or while driving the vehicle. Once the system is armed, it will initiate its triggered sequence (see below) if any door is opened and closed. If you are forced from the vehicle, the system will trigger as the door is opened and closed. This is how the system works to combat intersection carjacking. To protect against parking lot carjacking, arm the VRS before leaving the vehicle. The system will now trigger automatically the next time you or anyone drives the vehicle. This helps to protect the vehicle

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if someone takes your keys and remote transmitter by force in a parking lot.

> **note:** If the VRS® system is armed while operating the vehicle and not disarmed prior to leaving the vehicle, it is still armed and will trigger the next time the vehicle is driven.

➜ Triggered sequence, VRS

Fifteen seconds after the last door has closed, the in-vehicle LED will begin flashing. This delay is intended to allow you time to distance yourself from your vehicle in the event of a carjacking.

Forty-five seconds later, the siren begins chirping and the parking lights begin flashing. This time could be used to notify authorities that your vehicle has been hijacked, and tell them what the VRS will do next.

Fifteen seconds after the siren chirps begin, the siren's output will change to a continuous blast.

From this point on, when the ignition key is turned off, the VRS will immediately turn on the starter kill. This will prevent the vehicle from being restarted, thus immobilizing it at that spot.

Three minutes after the constant siren output begins, the flashing parking lights and the siren will stop. The starter kill will remain active until the system is disarmed. If the door is opened or the ignition is turned off and on in an attempt to restart the car, the siren and light flashing will begin again.

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Disarming the VRS

Take the time to familiarize yourself with the VRS triggering sequence and the disarm procedure. It is important to recognize and identify the VRS trigger sequence and know how to disarm it in case of accidental activation.

Once the VRS is armed, it does not disarm automatically. You must disarm it the next time you operate the vehicle. You must disarm it with one of the following procedures:

If the system has not entered the triggered sequence (siren has not started chirping):

1. Turn the ignition on.
2. Press the unlock button on the transmitter for one second. The lights will flash and the siren will chirp twice.

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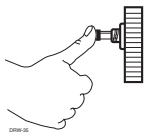
If the system has entered the triggered sequence (siren has begun chirping), pressing the disarm button of the transmitter will not disarm VRS. To disarm the VRS during a VRS trigger sequence:

1. Turn the ignition on.
2. Press the Valet button the pre-programmed number of times to disarm the VRS system.



note: If the VRS® system has begun its chirping sequence, the ignition must be turned off, then on to disarm. If you are driving the vehicle at the time, pull to a safe place away from traffic and follow the triggered sequence disarm procedure.

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Security & convenience expansions

Here we have listed only some of the many expansion options available. Please contact your dealer for a complete explanation of all the options available to you.

Audio Sensor: Metal on glass, glass cracking, and breaking glass each produce distinctive acoustic signatures. The 506T audio sensor uses a microphone to pick up sounds, and then analyzes them with proprietary acoustic software to determine if the glass has been struck.

Backup Battery: The 520T keeps the system armed, triggers the alarm and keeps the starter kill active if main battery power is disconnected.

Field Disturbance Sensor: An invisible dome of coverage is established by installing the 508D "radar" sensor. Your security system can then react to any intrusions into this field with the triggered sequence.

Garage Door: Remote control of your system can go beyond your vehicle. You can also control your automatic garage door using the 519H2 garage door opener with your remote control. Ask you dealer for details. Additional parts and labor required.

Headlight and Parking Light Automation: The 545T Nite-Lite® will automatically turn on your parking and headlights when it gets dark. In addition, the 545T will turn your headlights on whenever the windshield wipers are used. A transmitter function

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can also be used to turn on your parking and headlights for a programmed time.

Power Trunk Release: The channel two output of the system can operate a factory power release for the vehicle's trunk or hatch. (An additional relay may be required.) If the factory release is not power activated, then Directed's 522T trunk release solenoid can often be added.

Power Window Control: Automatic power window control is provided with the 529T and 530T systems.

Tilt Sensor: The 507M tilt sensor can be added to your system to protect your car when its parked. It can protect your vehicle from being lifted to protect your expensive rims.

Valet Start System: For the ultimate in convenience, the Valet start system can start your vehicle, monitor engine functions, and power your climate control system with a push of a button. Over-rev protection, open-hood lockout, brake pedal shutoff, and automatic timer shutoff are all included. (This feature is only for automatic transmission, fuel-injected vehicles.)

Ultrasonic Sensor: Providing a field of protection inside your car using the 509U Ultrasonic sensor to protect your belongings.

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Glossary of terms

ASK Amplitude Shift Keying—a method of transmitting data.

Control Unit: The "brain" of your system. Usually hidden under the dash area of the vehicle. It houses the microprocessor which monitors your vehicle and controls all of the system's functions.

Fail Safe Starter Kill: An automatic switch controlled by the security system which prevents the vehicle's starter from cranking whenever the system is armed. The vehicle is never prevented from cranking when the system is disarmed, in Valet mode, or should the starter interrupt switch itself fail. Your system is ready for this feature, however installation may require additional labor.

Input: A physical connection to the system. An input can be provided by a sensor, pinswitch or through an existing system in the vehicle, such as ignition or courtesy lights.

In-vehicle status LED: A light mounted somewhere in the vehicle. It is used to indicate the status of your system. It is also used to report triggers and faults in the system or sensors.

LCD: This is a Liquid Crystal Display used on your remote transmitter to display your vehicles status/alarm information.

Shock Sensor: This is a sensor mounted in the vehicle that is designed to pick up impacts to the vehicle or glass.

Siren: Noise generating device usually installed in the engine compartment of the vehicle. It is responsible for generating the

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"chirps" you hear, as well as the six tones you hear while the alarm is triggered.

Transmitter: Hand-held, remote control which operates the various functions of your system.

Trigger or Triggered Sequence: This is what happens when the alarm "goes off" or "trips". The triggered response of your system consists of the siren sounding and parking light flashing for the programmed duration.

Valet Button: A small push-button switch mounted somewhere inside the vehicle. It is used to override the alarm when a transmitter is lost or damaged, or to enter or exit Valet mode.

Warn Away® Response: Lighter impacts to the vehicle will generate the Warning Zone response. It consists of several seconds of siren chirps and parking light flashes.

Zone: A zone is a separate input that the alarm can recognize as unique. Each input to the system is connected to a particular zone. Two or more inputs often share the same zone.

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QUICK REFERENCE GUIDE

Cut along dotted line and fold for a quick and easy reference to keep in your purse or wallet.

To arm using your LCD remote

- You can activate, or arm, the system by pressing on your remote for one second. When the system arms, you will hear a short siren sound, or chirp, and the parking lights will flash once. If the vehicle's power door locks have been connected to the system, the doors will lock.

To disarm using your LCD remote

- To disarm the system, press . You will hear two chirps, and the parking lights will flash twice. If power locks are connected to the system, the doors will unlock. If the siren chirps either four or five times when disarming, see Diagnostics section. This is called Tamper Alert.

Arming while driving

- Press on your remote for two second while the vehicle is running. The system will chirp once and then once more to indicate that the ignition is on.

Disarming without a LCD remote

- Turn on the ignition. Press and release the Valet® button the programmed number of times within 15 seconds. After five seconds, the system will disarm. If it does not, you may have waited too long. Turn the ignition off and on and try again.

To enter or exit Valet® Mode

- Turn ignition to RUN position, then turn to OFF position. Press and release the Valet® button within 10 seconds. The in-vehicle status LED will light solid if you are entering Valet® Mode, and it will go out if you are exiting Valet® Mode.

To activate Panic Mode

- Press and hold or down for approximately two seconds.

To exit Panic Mode

- Press or on the remote.

To activate Silent Mode™

- Press briefly before arming or disarming, and the confirmation chirp(s) will be eliminated for that one operation only.

Location of Valet® Button_____

Number of Valet® Button pulses for disarming_____

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The company behind this system is Directed Electronics

Since its inception, Directed has had one purpose, to provide consumers with the finest vehicle security and car stereo products and accessories available. The recipient of more than 100 patents in the field of advanced electronic technology, Directed is ISO 9001 registered.

Quality Directed Electronics products are sold and serviced throughout North America and around the world.

Call **(800) 274-0200** for more information about our products and services.

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ISO 9001

Directed Electronics is an ISO 9001 registered company.

Directed® is committed to delivering world class quality products and services that excite and delight our customers.

driven to excel

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